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RAPID  
SPRAY

3M (10') BOOM KIT



Part Number SSBK-10FB-RS | Rev 1 Oct. 2008

## **INTRODUCTION**

The purpose of this manual is to assist you in the assembly, operation and maintenance of your sprayer or accessories. Please read through this manual completely to fully understand how to operate and maintain your equipment. This product has been manufactured to provide years of dependable service; proper operation and maintenance will ensure its dependability. Keep your manual in a safe, convenient place for future reference. Always mention the model and part number in any correspondence.

## **ASSEMBLY**

The ten foot boom kit is designed to fit many applications. It has been specifically designed to attach easily to other Rapid Spray products. The following instructions are intended for the attachment of the ten foot boom to a Rapid Spray lawn trailer, 3-point sprayer or ATV kit.

### **Spray Boom Attachment**

- 1.) Extend the Ten foot boom on a flat surface and remove the two loose bolts located on the end of the center boom section. Position the hinge over the holes in the center boom section and place bolts through holes. Tighten the bolt securely but ensure the hinge moves freely in both directions.
- 2.) Attach the two upright spray boom brackets (PN 31-100160) to your lawn trailer, ATV angle brackets or other application using the four 5/16-18 x 1 bolts (PN 33-100116) and 5/16 nuts (PN 33-100113).
- 3.) Attach the spray boom (PN 34-140059) to the upright spray boom brackets using two 5/16-18 x 1 bolts (PN 33-100116) and 5/16 nuts (PN 33-100113).
- 4.) Thread on the boom hose to the manifold valve installed previously and tighten securely.
- 5.) Optimum boom height is 14 to 15 inches above area to be sprayed. Use the location holes in the upright spray boom brackets as adjustments to obtain the optimum spray height.

### **Wiring Harness**

- 1.) Attach the new wiring harness with inline switch to the sprayer pump by pushing the two terminal connectors together.

## **OPERATION**

### **Using the 10' boom**

- Four things must be considered before spraying with the boom.
  1. How much chemical must be mixed in the tank?
  2. Rate of spray (gallons per acre to be sprayed.)
  3. What pressure (P.S.I) will be used.
  4. Speed traveled (M.P.H.) while spraying.
- Refer to the chemical label to determine the chemical mixture.
- See the tip chart to determine the pressure to be used. The chart will also show the speed used when spraying.
- Open the valve lever to the boom nozzles.
- Check the spray pattern. Usually you can see the coverage better on solid concrete surface, such as a driveway.
- Raise or lower the nozzles so that you will have a good coverage pattern. If you can see dry spots on the concrete surface you will need to raise the nozzles. Too much solution in the pattern areas means you need to lower the nozzles. Generally the proper height will be from 13 inches to 18 inches from the area to be sprayed.

### **Operation and Maintenance**

The nozzles on the boom will spray a 120” wide swath. The nozzle height is approximately 15” above the object being sprayed.

Once you know how much you are going to spray then determine (from the tip chart) the spraying pressure (PSI) and the spraying speed (MPH). The pressure can be set by running the sprayer with the boom nozzles “ON” and then by adjusting the garden hose valve lever until the gauge reads the desired pressure. Notice that the pressure will go up when the garden hose valve is slowly closed.

When selecting pressure from the tip chart, it is a good idea to try for the 20 or 30 PSI range as this allows an excellent nozzle pattern. At 10 PSI the pattern begins to break up and at 40 PSI you may notice some drift. Conditions of weather and terrain must be considered when setting the sprayer. Do not spray on windy days. Protective clothing must be worn in some cases. Be sure to read the chemical label carefully.

After all calibrations have been completed, add water and chemical to the tank. Always follow chemical manufacturer’s instructions for mixing.

### **CLEANING & STORAGE**

Most spray materials are highly corrosive. The most important aspect of long dependable service from the sprayer is a thorough cleaning immediately following each use. In addition, the residue of one type of chemical could cause an undesirable effect when a different chemical is used for a different purpose.

The most effective cleaning method is to pump several rinses of clean water through the tank, pump, hoses, boom, spray gun, etc. A neutralizing agent such as a solution of Nutra-Sol, a detergent or household ammonia as recommended by the chemical manufacturer can assist in removal of a persistent chemical. When the system is thoroughly cleaned drain the tank, suction line, pump, hoses, etc.

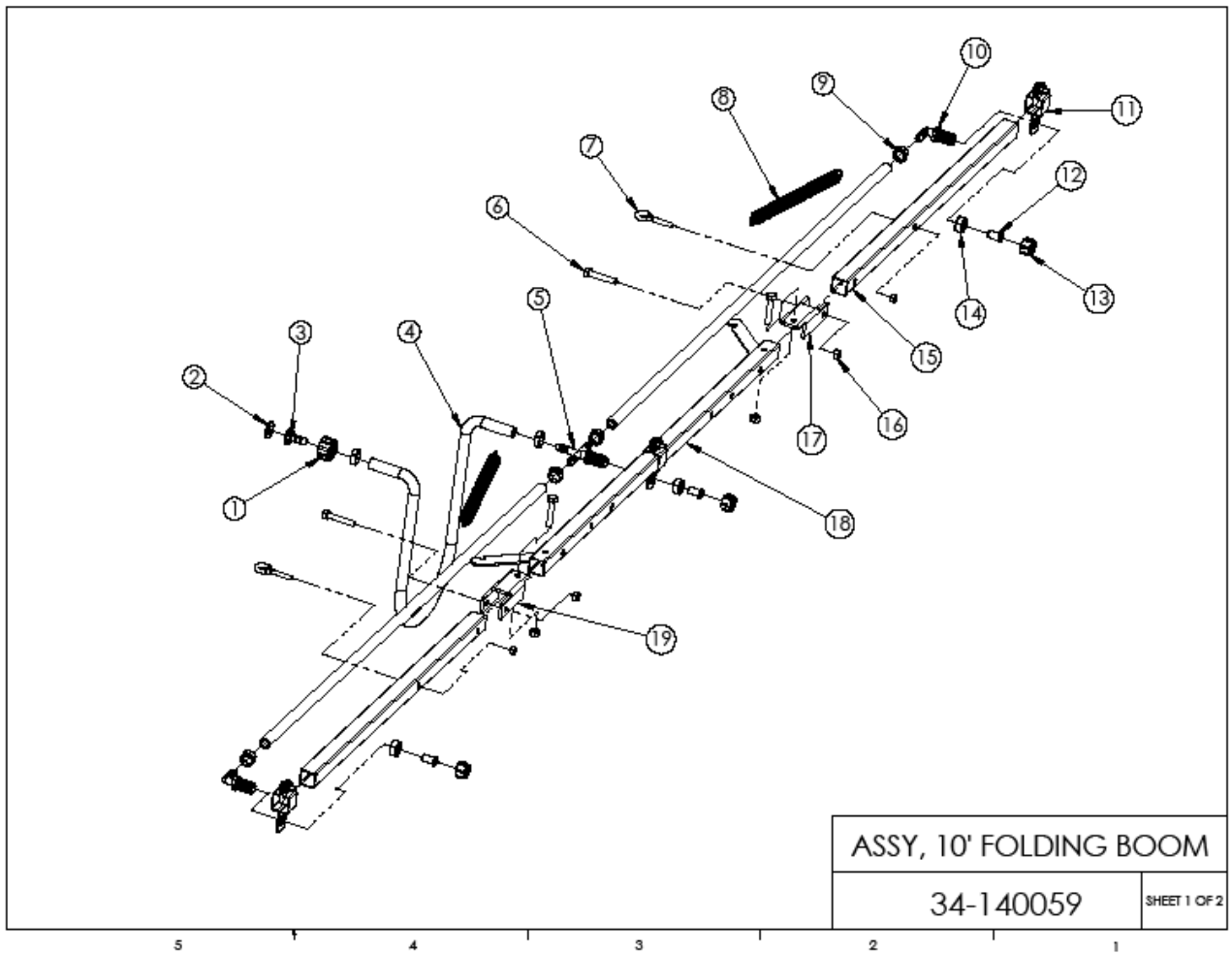
The following steps should be followed for the maintenance and storage of your sprayer.

1. Wash and flush out sprayer after completion of each phase of your program. Flush out sprayer when changing chemicals if there is a possibility of the chemicals being incompatible. Use of a detergent is advisable if the chemical manufacturer does not make specific cleaning recommendations. Flush system completely, including nozzles. Never use metal objects to open clogged nozzles.
2. Clean sprayer thoroughly before storing at the end of the spraying season. Permanent type anti-freeze added to the final rinse will leave a rust inhibiting film in parts of the sprayer.

### **WARRANTY PARTS SERVICE**

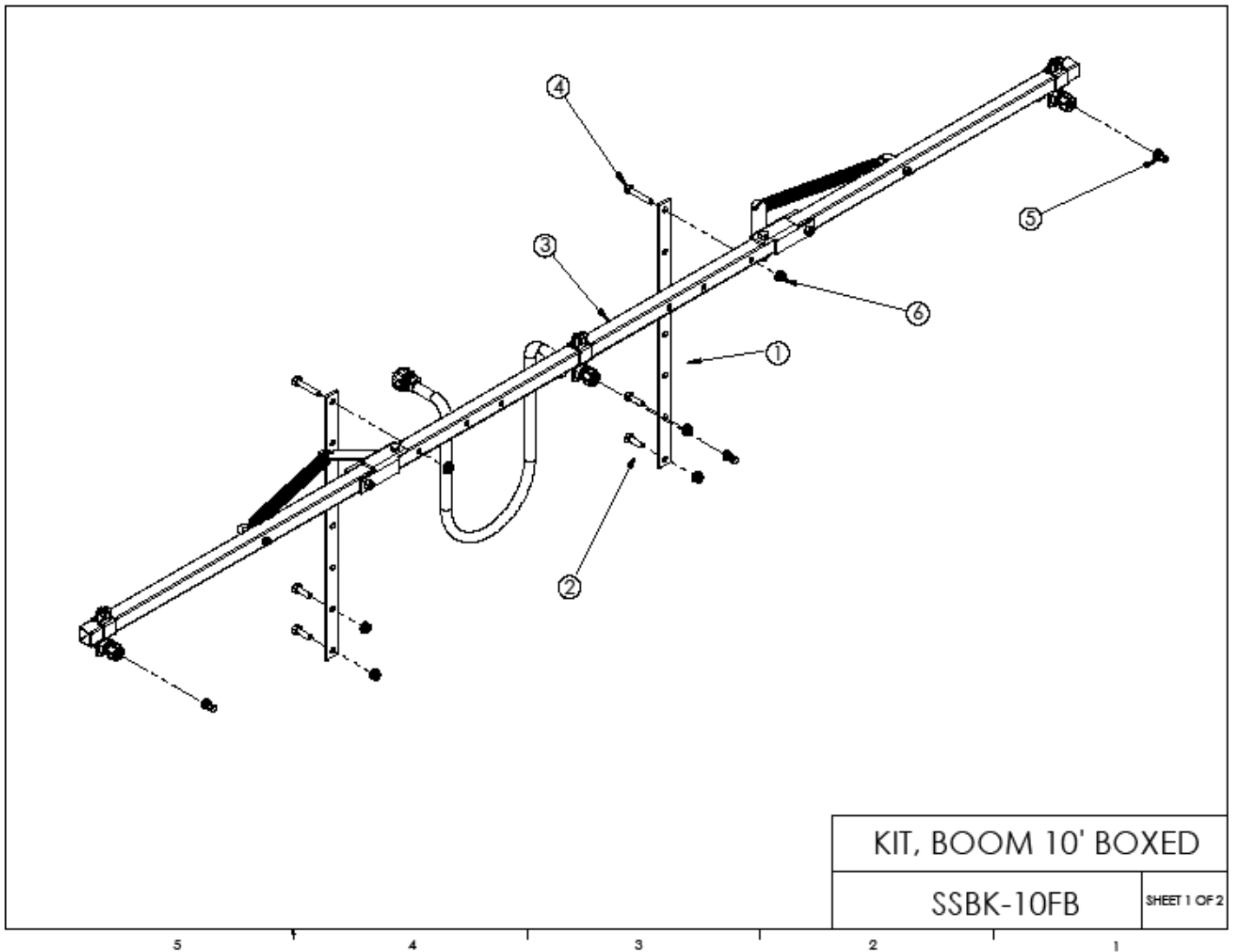
Products sold shall be warranted from defects in workmanship and material when used within the service and scope for which they were designed for a period of one year from date of purchase.





**Parts List Figure 34-140059**

Item #	Part Number	Qty	Description
1	B34	1	Swivel Garden hose nut
2	W406V	1	Garden Hose washer
3	C38	1	Flat seat 3/8" hose barb
4	3204-1407	3	3/8" Rubber hose x 40"
5	T38C-C	1	3/8" cross nozzle body
6	33-100119	4	Bolt 5/16-18 x 1.75"
7	33-100118	2	Eye bolt, 1/4" x 1.5"
8	33-100117	2	Spring, Extension
9	SHC-F	6	Snapper hose clamp
10	NTL38-C	2	3/8" EL nozzle body
11	BCS-100	3	Boom clamp 1" sq
12	NS-50	3	Nozzle strainer, 50 mesh
13	8027	3	Nozzle nut
14	B12	3	Nozzle body nut
15	31-100136	2	Left and right 10' boom wing
16	33-100120	4	Lock nut 5/16-18
17	31-100137-R	1	Hinge, right
18	32-100021	1	Boom center section
19	31-100137-L	1	Hinge, left



**Parts List Figure SSBK-10FB**

Item #	Part Number	Qty	Description
1	31-100160	2	Bracket, vertical adjustment
2	33-100116	4	Bolt, 5/16-18 x 1
3	34-140059	1	Assy, 10' folding boom
4	33-100119	2	Bolt, 5/16-18 x 1.75
5	DF2.5	3	Spray nozzle, 2.5 brown
6	33-100113	6	Nut 5/16, serrated
7	33-103233	1	Wiring harness, switched (not shown)